## **IN THE ABSTRACT**

Please replace the current Abstract with the substitute Abstract attached hereto.

## **ABSTRACT**

A high-strength, high-permeability steel sheet for picture tube band comprises, in mass percent, C: 0.003 – 0.010%, Si: 0.5 – 1.0%, Mn: 1.0 – 2.0%, P: 0.04 – 0.15%, S: not more than 0.02%, Al: not more than 0.030%, N: not more than 0.004% and the balance of Fe and unavoidable impurities, has a chemical composition satisfying C x Mn x P  $\geq$  2.5 x 10<sup>-4</sup>, and has a ferrite crystal grain diameter of 10 – 100 µm and a yield stress of 300 N/mm² or higher, and preferably has a specific permeability µ0.35 in a DC magnetic field of 0.35 Oe of 400 or higher. The steel sheet can be produced by regulating the hot-rolling coiling temperature to 600 – 700 °C and selecting an appropriate combination of the cold rolling reduction ratio and a final annealing temperature in the range of 750 – 900 °C.